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1 **An architecture for secure wide-area service discovery**
Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz
March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Full text available: 📄 pdf(365.68 KB)   Additional Information: full citation, abstract, references, index terms

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

Keywords: location services, name lookup, network protocols, service discovery

2 **A composable framework for secure multi-modal access to internet services from Post-PC devices**
Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: 📄 pdf(340.33 KB)   Additional Information: full citation, abstract, references, index terms

The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

3 **An architecture for a secure service discovery service**
Steven E. Czerwinski, Ben Y. Zhao, Todd D. Hodes, Anthony D. Joseph, Randy H. Katz
August 1999 **Proceedings of the fifth annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: 📄 pdf(1.47 MB)   Additional Information: full citation, references, citings, index terms

4 A framework for sharing personal annotations on web resources using XML
Takeshi Sannomiya, Toshiyuki Amagasa, Masatoshi Yoshikawa, Shunsuke Uemura
January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises**, Volume 23 Issue 6
Full text available: pdf(835.34 KB)   Additional Information: full citation, abstract, references

> In this paper, we propose WISPA (Web Indicator by Sharing Personal Annotations) Framework, which aims at mining useful information from communities on the World Wide Web with sharing personal annotations. In WISPA, annotations assigned to web pages on WWW are highly respected, because personal annotations contain each users' opinions or impressions to web pages, and those annotations can be used as essential materials for judging whether an information is important or not. Concretely, the proces ...

> **Keywords**: WWW, XLink, XML, XML schema, merged annotation, personal annotation

5 The case for services over cascaded networks
Anthony D. Joseph, B. R. Badrinath, Randy H. Katz
October 1998 **Proceedings of the 1st ACM international workshop on Wireless mobile multimedia**
Full text available: pdf(1.08 MB)   Additional Information: full citation, references, citings, index terms

6 Resource partitioning in general purpose operating systems: experimental results in Windows NT
D. G. Waddington, D. Hutchison
October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4
Full text available: pdf(1.56 MB)   Additional Information: full citation, abstract, index terms

> The principal role of the operating system is that of resource management. Its task is to present a set of appropriate services to the applications and users it supports. Traditionally, general-purpose operating systems, including Windows NT, federate resource sharing in a fair manner, with the predominant goal of efficient resource utilisation. As a result the chosen scheduling algorithms are not suited to applications that have stringent Quality-of-Service (QoS) and resource management require ...

7 Annotea: an open RDF infrastructure for shared Web annotations
José Kahan, Marja-Ritta Koivunen
April 2001 **Proceedings of the tenth international conference on World Wide Web**
Full text available: pdf(271.46 KB)   Additional Information: full citation, references, citings, index terms

> **Keywords**: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

8 XML schemas: integration and translation: Intelligent knowledge discovery in peer-to-peer file sharing
Yugyung Lee, Changgyu Oh, Eun Kyo Park
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Full text available: Additional Information:

pdf(381.17 KB)   full citation, abstract, references, index terms

Emerging peer-to-peer computing provides new possibilities but also challenges for
distributed applications. Despite their significant potential, current peer-to-peer networks
lack efficient knowledge discovery and management. This paper addresses this deficiency
and proposes the Intelligent File Sharing framework, which provides an effective and flexible
query for P2P file sharing. The IFS is based on powerful schema and flexible inference, as
well as efficiently integrated and extensible retri ...

Keywords: association rules, encoding, hierarchy, peer-to-peer file sharing, reasoning,
retrieval, search

9 Digital libraries for spatial data: G-Portal: a map-based digital library for distributed
geospatial and georeferenced resources
Ee-Peng Lim, Dion Hoe-Lian Goh, Zehua Liu, Wee-Keong Ng, Christopher Soo-Guan Khoo,
Susan Ellen Higgins
July 2002 **Proceedings of the second ACM/IEEE-CS joint conference on Digital
libraries**

Full text available: pdf(291.03 KB)   Additional Information: full citation, abstract, references, citings, index
terms

As the World Wide Web evolves into an immense information network, it is tempting to build
new digital library services and expand existing digital library services to make use of web
content. In this paper, we present the design and implementation of G-Portal, a web portal
that aims to provide digital library services over geospatial and georeferenced content found
on the World Wide Web. G-Portal adopts a map-based user interface to visualize and
manipulate the distributed geospatial and georef ...

Keywords: digital libraries, education, geography, world wide web

10 Contributed articles: Resource description framework: metadata and its applications
K. Selçuk Candan, Huan Liu, Reshma Suvarna
July 2001 **ACM SIGKDD Explorations Newsletter**, Volume 3 Issue 1

Full text available: pdf(1.02 MB)   Additional Information: full citation, abstract, references

Universality, the property of the Web that makes it the largest data and information source
in the world, is also the property behind the lack of a uniform organization scheme that
would allow easy access to data and information. A semantic web, wherein different
applications and Web sites can exchange information and hence exploit Web data and
information to their full potential, requires the information about Web resources to be
represented in a detailed and structured manner. Resource Descrip ...

Keywords: Resource Description Framework (RDF), Web, XML, metadata, semantic web

11 Web-based simulation: SISCO: a supply chain simulation tool utilizing silk™ and XML
Dean C. Chatfield, Terry P. Harrison, Jack C. Hayya
December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(276.14 KB)   Additional Information: full citation, abstract, references, citings

We discuss SISCO, the Simulator for Integrated Supply Chain Operations, a Java-based tool
that simplifies supply chain simulation model development. SISCO maps supply chain
descriptions stored in the XML-based Supply Chain Modeling Language (SCML) format to a
set of supply chain "building blocks" developed with ThreadTec's Silk™ simulation classes.
The resulting system combines the ease of a visual supply chain simulator, the power and

flexibility of a full object-oriented programming lang ...

12 Mobile and Cooperative Systems: Information sharing and security in dynamic coalitions
Charles E. Phillips, T.C. Ting, Steven A. Demurjian
June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**
Full text available: pdf(1.68 MB)   Additional Information: full citation, abstract, references, index terms

> Today, information sharing is critical to almost every institution. There is no more critical need for information sharing than during an international crisis, when international coalitions dynamically form. In the event of a crisis, whether it is humanitarian relief, natural disaster, combat operations, or terrorist incidents, international coalitions have an immediate need for information. These coalitions are formed with international cooperation, where each participating country offers whate ...

> **Keywords**: access control, distributed systems, dynamic coalitions, information security

13 Detecting shared congestion of flows via end-to-end measurement
Dan Rubenstein, Jim Kurose, Don Towsley
June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 28 Issue 1
Full text available: pdf(1.09 MB)   Additional Information: full citation, abstract, references, citings, index terms

> Current Internet congestion control protocols operate independently on a per-flow basis. Recent work has demonstrated that cooperative congestion control strategies between flows can improve performance for a variety of applications, ranging from aggregated TCP transmissions to multiple-sender multicast applications. However, in order for this cooperation to be effective, one must first identify the flows that are congested at the same set of resources. In this paper, we present techniques ...

14 Languages & Authoring for the Semnatic Web: The Yin/Yang web: XML syntax and RDF semantics
Peter Patel-Schneider, Jérôme Siméon
May 2002 **Proceedings of the eleventh international conference on World Wide Web**
Full text available: pdf(162.67 KB)   Additional Information: full citation, abstract, references, index terms

> XML is the W3C standard document format for *writing* and *exchanging* information on the Web. RDF is the W3C standard model for *describing the semantics* and *reasoning about* information on the Web. Unfortunately, RDF and XML—although very close to each other— are based on two different paradigms. We argue that in order to lead the Semantic Web to its full potential, the syntax and the semantics of information needs to work together. To this end, we develop a model-theo ...

> **Keywords**: RDF, XML, data models, model theory, semantic web

15 Locating and accessing data repositories with WebSemantics
George A. Mihaila, Louiqa Raschid, Anthony Tomasic
August 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 1
Full text available: pdf(130.61 KB)   Additional Information: full citation, abstract

> Many collections of scientific data in particular disciplines are available today on the World

Wide Web. Most of these data sources are compliant with some standard for interoperable access. In addition, sources may support a common semantics, i.e., a shared meaning for the data types and their domains. However, sharing data among a global community of users is still difficult because of the following reasons: (i) data providers need a mechanism for describing and publishing available sources of ...

Keywords: Data discovery, Data integration, Mediators, Query languages, World Wide Web, XML

16 The Design and Implementation of a Mobile Learning Resource

Mike Sharples, Dan Corlett, Oliver Westmancott
January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 3

Full text available: pdf(384.39 KB)   Additional Information: full citation, abstract, index terms

The convergence of mobile communications and handheld computers offers the opportunity to develop technology that will assist individuals and groups to learn anytime, anywhere. We describe the theory-informed design, implementation and evaluation of a handheld learning device. It is intended to support children to capture everyday events such as images, notes and sounds, to relate them to web-based learning resources, to organise these into a visual knowledge map, and to share them with other le ...

17 A fine-grained access control system for XML documents

Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati
May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Full text available: pdf(330.60 KB)   Additional Information: full citation, abstract, references, index terms

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification and enforcement

18 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web

Reiner Kraft
November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available: pdf(301.14 KB)   Additional Information: full citation, abstract, references, index terms

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many,and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

19 EIHA?!?: deploying Web and WAP services using XML technology

Chiara Biancheri, Jean-Christophe Pazzaglia, Gavino Paddeu
March 2001 **ACM SIGMOD Record**, Volume 30 Issue 1
Full text available: ☐ pdf(744.53 KB)   Additional Information: full citation, abstract, index terms

The exponential growth of resources on the web, and the wide deployment of devices for multimodal access to the Internet, lead to new problems in information management. In this context, and as part of the European project Vision, we have built an interactive telematic handbook of the culture and the territory of Sardinia. A team of cultural experts browsed the web to get a large collection of Internet resources.The system built for the management of this data uses emerging Internet technologies ...

Keywords: DBMS, DTD, WAP, WML, XML, XSL, metadata, search engine

20 Education and training: An XML-based approach to multimedia software engineering for distance learning
T. Arndt, S. K. Chang, A. Guercio, P. Maresca
July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**
Full text available: ☐ pdf(95.53 KB)   Additional Information: full citation, abstract, references

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification of visual patterns. Visual Languages contribute to MSE such concepts as: Visual notation for software specification, design and verification flow charts, ER diagrams, Petri Nets, UML visualization, visual programming languages etc. Multim ...

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